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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25461

7590

05/04/2009

SMITH, GAMBRELL & RUSSELL SUITE 3100, PROMENADE II 1230 PEACHTREE STREET, N.E. ATLANTA, GA 30309-3592

EXAMINER					
ZHU, WEIPING					
ART UNIT	PAPER NUMBER				
1793					

DATE MAILED: 05/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565.925	08/21/2006	Juan Dong	048170.001	7631

TITLE OF INVENTION: METHOD FOR MICROMACHINING METALLIC MATERIALS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (	rders and notification a) specifying a new co	of m orres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
25461 7590 05/04/2009 SMITH, GAMBRELL & RUSSELL SUITE 3100, PROMENADE II 1230 PEACHTREE STREET, N.E.				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
ATLANTA, GA	X 30309-3592							(Depositor's name
								(Signature
								(Date
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/565,925 TITLE OF INVENTION	08/21/2006 V: METHOD FOR MICR	ROMACHINING METAI	Juan Dong LLIC MATERIALS				048170.001	7631
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	08/04/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
ZHU, W	/EIPING	1793	148-219000	_	,			
"Fee Address" ind PTO/SB/47; Rev 03-( Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on th	nativingle or a attor l be per typene pagan a	rely, e firm (having as a gent) and the nameneys or agents. If printed.  e) ttent. If an assignessignment.	memb es of uj no nam	er a 2	ocument has been filed fo
Please check the appropri	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	oup entity 🗖 Governmen
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta  a. Applicant claim	tus (from status indicatens SMALL ENTITY state		☐ b. Applicant is no	long	ger claiming SMAI	LL ENT	TITY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	ed from anyone other the Office.	an th	ne applicant; a regi	stered a	attorney or agent; or th	e assignee or other party i
Authorized Signature					Date			
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an application. Confiden submitting the complete this form and/or suggest	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO	5 U.S.C. 122 and 37 CFR e USPTO. Time will vary orden, should be sent to the	1.14. This collection is depending upon the is e Chief Information O	s esti ndivi ffice	imated to take 12 r idual case. Any co r. U.S. Patent and	ninutes mment Traden	to complete, includin s on the amount of tir ark Office, U.S. Depa	by the USPTO to process g gathering, preparing, an me you require to complet artment of Commerce, P.C for Patents, P.O. Box 1450

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10/565,925	08/21/2006	Juan Dong	048170.001	7631
25461 75	90 05/04/2009		EXAM	INER
SMITH, GAMBI	RELL & RUSSELL		ZHU, W	EIPING
SUITE 3100, PRO			ART UNIT	PAPER NUMBER
1230 PEACHTRE ATLANTA, GA 30			1793 DATE MAILED: 05/04/200	9

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 187 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 187 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/565,925	DONG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MEIDING ZUU	1700	
	WEIPING ZHU	1793	
The MAILING DATE of this communication apportant claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm <b>IGHTS</b> . This application is	in this application. If not included nunication will be mailed in due cour	se. <b>THIS</b>
1. 🔀 This communication is responsive to <u>applicant's amendme</u>	ent filed on February 20, 20	<u>09</u> .	
2. ☑ The allowed claim(s) is/are <u>1-6 and 12-15</u> .			
3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the:	, . ,	or (f).	
<ol> <li>Certified copies of the priority documents have</li> </ol>			
<ol><li>Certified copies of the priority documents have</li></ol>	• •		
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	ed in this national stage application f	rom the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w ( PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner		or in the Office action of	
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			the
Attachment(s)	5 □ Nagaragi	ofannal Datast Annilastian	
1. Notice of References Cited (PTO-892)		nformal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413), ./Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	s Amendment/Comment	
Paper No./Mail Date <u>2/20/2009</u> 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	s Statement of Reasons for Allowan	ce
of Biological Material	9. 🔲 Other	<u>_</u> .	
/Weiping Zhu/			
Examiner, Art Unit 1793			

### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Laurence P. Colton on April 16, 2009.

The application has been amended as follows:

Claims 7-11 have been cancelled.

### Allowable Subject Matter

Claims 1-6 and 12-15 are allowed.

The following is an examiner's statement of reasons for allowance:

The applicant's amendment filed on February 20, 2009 has obviated the rejections recited in the Office action dated September 26, 2008. Umetani et al. (US 5,171,348) does not disclose the thermochemical surface layer treatment as required in instant claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/565,925 Page 3

Art Unit: 1793

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Wyszomierski/ Primary Examiner Art Unit 1793

WZ 4/16/ 2009